

ATTACHMENT B
SOIL BORING PLUGGING CRITERIA
K.A.R. 28-30-7(d)

**ARTICLE 30 - WATER WELL CONTRACTORS LICENSE;
WATER WELL CONSTRUCTION AND ABANDONMENT**

This article regulates the construction, reconstruction, treatment and plugging of water wells and sets forth procedures for the licensing of water well contractors as required by K.A.S. 82a-1201 to 82a-1215 and amendments thereto.

28-30-7 Plugging of abandoned wells, cased and uncased test holes.

- (d) Plugging of abandoned holes. If the hole penetrates an aquifer containing water with more than 1,000 mg/l, total dissolved solids or is in an area determined by the department to be contaminated, the entire hole shall be plugged with an approved grouting material from the bottom of the hole, up to within three feet of the ground surface using a grout tremie pipe or similar method. From three feet below ground surface to ground surface the plugged hole shall be covered over with compacted surface silts or clays; otherwise, the hole shall be plugged in accordance with the following paragraphs.
- (1) Plugging of abandoned cased test holes. The casing shall be removed if possible and the abandoned test hole shall be plugged with an approved grouting material from the bottom of the hole, up to within three feet of the ground surface, using a grout tremie pipe or similar method. From three feet below ground surface to ground surface the hole shall be covered over with compacted surface silts or clays. If the casing cannot be removed, in addition to plugging the hole with an approved grouting material the annular space shall also be grouted as described in K.A.R. 28-30-6 or as approved by the department.
- (2) Abandoned uncased test holes, exploratory holes or any bore holes except seismic or oil field related exploratory and services holes regulated by the Kansas Corporation Commission under K.A.R. 82-3-115 through 82-3-117. A test hole or bore hole drilled, bored, cored, or augered shall be considered an abandoned hole immediately after the completion of all testing, sampling or other operations for which the hole was originally intended. The agency or contractor in charge of the exploratory or other operations for which the hole was originally intended is responsible for plugging the abandoned hole using the following applicable method, within three calendar days after the termination of testing or other operations.
- (A) The entire hole shall be plugged with an approved grouting material from bottom of the hole, up to within three feet of the ground surface, using a grout tremie pipe or similar method.
- (B) From three feet below ground surface to ground surface the plugged hole shall be covered over with compacted surface silts or clays.
- (C) For bore holes of 25 feet or less, drill cuttings from the original hole may be used to plug the hole in lieu of grouting material, provided that an aquifer is not penetrated or the bore hole is not drilled in an area determined by the department to be a contaminated area.

WELL PLUGGING/ABANDONMENT REQUIREMENTS

The following requirements supplement section 28-30-7 (d) (1) of article 30 - Water Well Contractor's License: Water Well Construction and Abandonment, located on page 1 of Attachment B.

A) The following requirements will be mandatory for plugging monitoring wells that have **20 feet or greater of grout (including the bentonite plug)**:

- 1) The well head, concrete pad and protective cover (if above grade completion) must be removed.
- 2) The casing must be removed if possible. The well must then be filled with an approved plugging material. After the casing or casing void has been filled with an approved plugging material, the casing (if still in place) will be cut off to a level three (3) feet below ground surface. The remaining excavation may then be backfilled with native soils.
- 3) The property will be restored as near to the original condition subsequent to plugging.

B) The following requirements will be mandatory for plugging monitoring wells that have **less than 20 feet of grout (including bentonite plug)**:

- 1) The well head, concrete pad and protective cover (if above grade completion) must be removed.
- 2) Unless otherwise specified in the Site Specific (SSI) in Exhibit 1, the well must be drilled out to a minimum of twenty (20) feet or total depth, whichever is less. Over drilling must be performed using an auger with a minimum diameter equal to the original diameter of the soil boring.
- 3) The casing (if still present) must be removed and the boring filled with an approved plugging material to a level of three (3) feet below ground surface. The remaining excavation may then be backfilled with native soils.
- 4) The property will be restored as near to the original condition subsequent to plugging.